

STANDARD INSPECTION REPORT OF A GAS OPERATOR FIELD AUDIT

FIELD AUDIT

Unless otherwise noted, all code references are to 49CFR Part 192.
If an item is marked Unsatisfactory, Not Applicable, or Not Checked, an explanation must be included in this report.

Operator: AMEREN ILLINOIS COMPANY	Operator ID#: 32513
Inspection Date(s): 10/21/2015 (Half), 10/22/2015	Man Days: 1.5
Inspection Unit: Macomb	
Location of Audit: Macomb	
Exit Meeting Contact: Chris Juliusson	
Inspection Type: Standard Inspection - Field Audit	
Pipeline Safety Representative(s): Kevin Hecker	
Company Representative to Receive Report: Michael Fuller	
Company Representative's Email Address: mfuller2@ameren.com	

Headquarters Address Information:	300 Liberty Peoria, IL 61602 Emergency Phone#: (800) 755-5000 Fax#:	
Official or Mayor's Name:	Ron Pate Phone#: (217) 424-6518 Email:	
Inspection Contact(s)	Title	Phone No.
Chris Juliusson	Quality Assurance Consultant	

CUSTOMER METER & REGULATOR	Status
<u>Category Comment:</u> <i>Staff observed customer meter sets at the following locations:</i> 721 Wigwam Hollow 1 Pollack Drive 300 W. Murray 221 E. Washington 323 E. Jefferson 603 S. Lafayette 730 E. Adams 700 W. Jefferson 715 W. Jefferson 725 W. Jefferson 729 W. Jefferson	

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[192.353(a)]	Is the customer meter and regulator installed in a readily accessible location and protected from corrosion and other damage, including if installed outside a building, vehicular damage that may be anticipated?	Unsatisfactory
<u>Issue Comment:</u> Staff observed a meter set at 730 E. Adams very close to a recently installed air conditioning unit. Staff recommended relocating or venting the regulator away from all sources of ignition.		
[192.355(b)(1)]	Is the customer regulator vent rain and insect resistant?	Satisfactory
[192.355(b)(2)]	Is the customer regulator vent located where gas from the vent escapes freely into the atmosphere and away from building openings?	Satisfactory
[192.355(b)(3)]	Is the vent protected from damage caused by submergence in areas of flooding?	Not Applicable
<u>General Comment:</u> Staff observed no meter sets in areas prone to flooding.		
[192.357(a)]	Is the customer meter and regulator installed to minimize anticipated stresses upon connecting piping?	Satisfactory
[192.357(d)]	Is a customer regulator that might release gas vented to the outside atmosphere?	Satisfactory
[192.359(a)]	Is the meter operating pressure within the allowable limits of the meter case rating?	Satisfactory
[192.365(a)]	Is the service line valve upstream of the regulator or meter?	Satisfactory
[192.365(c)]	Is the underground service line valve located in a curb box or standpipe that allows for ready operation?	Not Applicable
<u>General Comment:</u> There are no underground service line valves within the Ameren Macomb operating territory.		
[192.727(d)][192.727(d)]	When service to the customer has been discontinued has the proper method been utilized to prevent unauthorized usage?	Not Checked
<u>General Comment:</u> Staff observed no meter sets where service has been discontinued.		
CATHODIC PROTECTION		Status
[192.463(a)]	Is the applicable cathodic protection criteria contained in Appendix D of this part being followed?	Satisfactory
[192.465(a)]	Were pipe to soil readings taken?	Satisfactory
<u>General Comment:</u> Pipe to soil readings were taken at the following locations: 721 Wigwam Hollow: -.992 1 Pollack Drive: -1.00 300 W. Murray Drive: -1.531 221 E. Washington: -1.196		

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[192.465(b)]	Were rectifier installations inspected?	Satisfactory
<p><u>General Comment:</u></p> <p>Staff observed the inspection of a rectifier located on Emory Road in Spring Lake. The following readings were obtained:</p> <p>Coarse setting: 1 Fine setting: 5</p> <p>6.24 V at 7.6 mV (=1.52 A with a .2A shunt)</p>		
[192.465(a)]	Were isolated mains/services tested?	Satisfactory
<p><u>General Comment:</u></p> <p>Particular attention was paid to isolated services during this audit. Records indicated that isolated services were replaced with new anodeless risers, however, records of cathodically protected piping were not updated. (see NOPVs written during the record audit)</p> <p>The isolated services tested are listed in the "pipe to soil readings" question above.</p>		
[192.465(c)]	Were critical/non critical bonds tested?	Not Applicable
<p><u>General Comment:</u></p> <p>There are no bonds (critical or non-critical) within the Macomb Operating territory.</p>		
[192.467(a)]	Is electrical isolation provided by use of insulated meter spud, valve, union, or flange?	Satisfactory
[192.467(c)]	Were casings installations tested for electrical isolation?	Satisfactory
<p><u>General Comment:</u></p> <p>Staff observed the inspection of a casing at a railroad crossing near the intersection of Lafayette and Calhoun in Macomb.</p> <p>Initial readings were -1.006 on the carrier pipe and -1.010 on the casing, which is less than the required 25mV shift listed in the O&M to indicate proper isolation of the carrier pipe from the casing. A reverse current test was conducted which yielded -1.186 on the carrier pipe and -1.14 on the casing after applying 2.4 A, which indicates that no shorts exist between the carrier pipe and casing.</p> <p>A casing was inspected at a railroad crossing near the intersection of N. Edwards and E. Adams: Casing: -.599 Carrier pipe: -1.055</p> <p>A casing was inspected at a road crossing on Route 67 north of Macomb: Casing: -1.364 Carrier Pipe: -1.580</p>		
[192.479(a)]	Is the above ground piping coated or painted as required?	Satisfactory
[192.479(c)]	Is the pipeline free of corrosion or pitting?	Satisfactory
DAMAGE PREVENTION		Status
[192.614]	Does the operator have a valid notification of planned excavation activities?	Satisfactory
<p><u>General Comment:</u></p> <p>Staff observed the installation of a new meter set at 206 N. Church in Plymouth, IL.</p> <p>JULIE # X02890956</p>		

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[265.40(a)]	Did the operator complete the locating activities in the specified timeframe?	Satisfactory
[192.614(c)(5)]	Were temporary markings made in accordance with the operator's Operation and Maintenance Manual?	Satisfactory
[192.707(a)(1)]	Are line markers placed and maintained as close as practical over each buried main and transmission line located at each crossing of a public road and railroad?	Satisfactory
<u>General Comment:</u> <i>Staff observed line markers at the following locations in Macomb:</i> <i>A casing at Lafayette and Calhoun</i> <i>A casing at N. Edwards & E. Adams</i> <i>A casing at the East Regulator station</i> <i>A road crossing on Route 67 north of Macomb</i> <i>A road crossing at E950th Road and Highway 136</i>		
[192.707(a)(2)]	Are line markers placed and maintained as close as practical over each buried main and transmission line located wherever necessary to identify the location of the transmission line or main to reduce the possibility of damage or interference?	Satisfactory
<u>General Comment:</u> <i>Staff observed several line markers along Highway 67 north of Macomb.</i>		
[192.707(c)]	Are line markers placed and maintained as close as practical over each main and transmission line located above ground?	Satisfactory
<u>General Comment:</u> <i>Staff observed line markers at the following above-ground locations:</i> <i>Ameren's rectifier on Emory Road in Spring Lake</i> <i>Regulator station #230001</i> <i>Regulator station #230022</i> <i>Regulator station #230057</i> <i>Regulator station #230014</i> <i>Regulator station #230018</i>		
[192.707(d)(1)]	Do the operator's line markers contain the following information: The following must be written legibly on a background of sharply contrasting color on each line marker: The word "Warning," "Caution," or "Danger" followed by the words "Gas (or name of gas transported) Pipeline" all of which, except for markers in heavily developed urban areas, must be in letters at least 1 inch (25 millimeters) high with ¼ inch (6.4 millimeters) stroke?	Satisfactory
<u>General Comment:</u> <i>All line markers observed contained the required information in the correct format.</i>		
[192.707(d)(2)]	Do the operator's line markers contain the following information: The following must be written legibly on a background of sharply contrasting color on each line marker: The name and phone number (including area code) of the operator where the operator can be reached at all times?	Satisfactory

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<u>General Comment:</u> All line markers observed contained the required information in the correct format.		
PRESSURE LIMITING AND REGULATING DEVICES (MECHANICAL)		Status
<u>Category Comment:</u> Staff observed the following regulator stations: #230001 - East Macomb Station #230022 - E. Pierce and N. Griffin Station #230057 - 15435 N. Route 67 #230014 - Near road crossing on Route 67 north of Macomb		
[192.739(a)(4)]	Was each pressure limiting station, relief device (except rupture discs), and pressure regulating station and its equipment subjected at intervals not exceeding 15 months, but at least once each calendar year, to inspections and tests to determine that it is properly installed and protected from dirt, liquids, or other conditions that might prevent proper operation.?	Satisfactory
<u>General Comment:</u> Staff reviewed regulator station inspection records for 2013 and 2014.		
[192.317(b)]	Is each above ground transmission line or main protected from accidental damage by vehicular traffic or other similar causes?	Satisfactory
[192.741(a), 192.741(c)]	Were telemetering and/or recording gauges inspected for abnormally high or low pressure indications?	Not Checked
<u>General Comment:</u> System pressure records are maintained at Gas Control and were not reviewed as part of this audit.		
[192.743(a)]	Is overpressure protection provided on the pipeline downstream of the take point?	Not Checked
<u>General Comment:</u> Ameren has identified Macomb as a location requiring additional overpressure protection. Staff receives periodic updates regarding the installation of overpressure protection at the Milton take point.		
[192.199(d)]	Were the pressure relief or pressure limiting devices inspected to determine if the support was made of noncombustible material?	Satisfactory
[192.199(e)]	Were the pressure relief or pressure limiting devices inspected to determine if the discharge stacks, vents, or outlet ports were designed to prevent accumulation of water, ice, or snow, and located where gas can be discharged into the atmosphere without undue hazard?	Satisfactory
[192.199(h)]	Was each valve, designed to isolate the system under protection from its source of pressure, secured to prevent unauthorized operation of any stop valve that will make the pressure relief valve or pressure limiting device inoperative?	Satisfactory
VALVE MAINTENANCE		Status
[192.747(a)]	Were the valves readily accessible and was the operator able to access the valve with the appropriate valve wrench?	Satisfactory

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<u>General Comment:</u> Staff inspected the following emergency valves: 230R943 (at reg station #230018) 230T962 (at reg station #230001) 230T963 (at reg station #230001) 230T961 (at reg station #230001) 230R320 (at reg station #230001) 230T941 (at reg station #230001) 230T942 (at reg station #230001) 230F022 (at reg station #230022) 230D032 (at reg station #230022) 230R057 (at reg station #230057) 230R949 (at reg station #230018)		
ODORIZATION OF GAS		Status
[192.625(a)]	Was the odor intensity level readily detectable at or below 1/5th LEL?	Satisfactory
<u>General Comment:</u> An odorant reading was obtained at regulator station #230014 Threshold: .15% gas in air Readily Detectable: .25% gas in air An odorant reading was obtained at regulator station #230055 Threshold: .10% gas in air Readily Detectable: .20% gas in air		
[192.625(e)]	Was the Odorization equipment and tank levels inspected?	Not Applicable
<u>General Comment:</u> There is no odorizing equipment within the Macomb operating center territory.		
[192.625(f)]	Was the operator's equipment calibrated as required?	Satisfactory
<u>General Comment:</u> Ameren Macomb personnel utilized a Bachrach odorometer for both readings. (serial #9263, calibrated on 11/12/2014)		
TRANSMISSION		Status
<u>Category Comment:</u> No transmission pipelines were maintained out of the Ameren Macomb operating center.		
[192.179(b)(1)]	Are transmission valves protected from tampering or damage?	Not Applicable
[192.745(a)]	Were the valves inspected accessible?	Not Applicable
[192.719(a)]	Is pre-tested transmission pipe inventory maintained for use in an emergency?	Not Applicable
[192.179(c)]	If blow down activities were observed, were the blow down valves properly sized to allow the transmission pipeline to vent as rapidly as practicable and did the blow down vent freely to atmosphere away from any hazards?	Not Applicable
MARKING OF MATERIAL		Status
[192.63(a)]	Does the operator's components and pipe contain the required markings?	Satisfactory

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OPERATOR QUALIFICATION	Status
Was a PHMSA Form 15 Operator Qualification Field Inspection Protocol Form completed?	No

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